HALLIBURTON

ARRAY COMPENSATED RESISITIVTY

1 IN = 100 FT TVD

COMPANY SMITH PRODUCTION CO.
WELL SL 18593 #2
FIELD GILLIS-ENGLISH BAYOU
PARISH CALCASIEU
STATE LOUISIANA

COMPANY **SMITH PRODUCTION CO.**

WELL **SL 18593 #2**

FIELD **GILLIS-ENGLISH BAYOU**

PARISH **CALCASIEU** STATE **LOUISIANA**

API No. 17019222560000

Location Longitude: 93° 8' 34.52" W
Latitude: 30° 17' 17.67" N

Other Services:
DSNT, SDLT

Sect. 12 Twp. 9S Rge. 8W

Permanent Datum	GL	Elev. 3.0 ft	Elev.: K.B. 17.0 ft
Log measured from	KB	14.0 ft above perm. Datum	D.F. 16.0 ft
Drilling measured from	KB		G.L. 3.0 ft

Date		06-Feb-11				
Run No.		ONE				
Depth - Driller		8202.00 ft				
Depth - Logger		8017.0 ft				
Bottom - Logged Interval		8007.0 ft				
Top - Logged Interval		2507.0 ft				
Casing - Driller		9.625 in	@ 2510.0 ft	@		@
Casing - Logger		2507.0 ft				
Bit Size		8.500 in		@		@
Type Fluid in Hole		WATER BASED MUD				
Density	Viscosity	10.2 ppg	47.00 s/qt			
PH	Fluid Loss	9.90 pH	5.0 cptm			
Source of Sample		FLOWLINE				
Rm @ Meas. Temperature		0.770 ohmm	@ 77.00 degF	@		@
Rmf @ Meas. Temperature		0.64 ohmm	@ 75.00 degF	@		@
Rmc @ Meas. Temperature		0.720 ohmm	@ 75.00 degF	@		@
Source Rmf	Rmc	MEASURED	MEASURED			
Rm @ BHT		0.36 ohmm	@ 172.0 degF	@		@
Time Since Circulation		10.0 hr				
Time on Bottom		06-Feb-11 12:52				
Max. Rec. Temperature		172.0 degF	@ 8017.0 ft	@		@
Equipment	Location	1279	NEW IBERIA			
Recorded By		C. HARRELL				
Witnessed By		B. FURRH				

Fold here

Service Ticket No.: 7945504 API Serial No.: 17019222560000 PGM Version: WL INSITE R3.2.0 (Build 7)

CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE

RESISTIVITY SCALE CHANGES

	Sample No.	Type Log	Depth	Scale Up Hole	Scale Down Hole
Date					
Depth-Driller					
Type Fluid in Hole					
Density	Viscosity				
Ph	Fluid Loss				
Source of Sample					

RESISTIVITY EQUIPMENT DATA

	Run No.	Tool Type & No.	Pad Type	Tool Pos.	Other
Rm @ Meas. Temp	@	@			
Rmf @ Meas. Temp.	@	@	N/A	1.5 IN S.O.	N/A
Rmc @ Meas. Temp.	@	@			
Source Rmf	Rmc				
Rm @ BHT	@	@			
Rmf @ BHT	@	@			
Rmc @ BHT	@	@			

EQUIPMENT DATA

GAMMA		ACOUSTIC		DENSITY		NEUTRON	
Run No.	ONE	Run No.		Run No.	ONE	Run No.	ONE
Serial No.	10958652	Serial No.		Serial No.	325M767P	Serial No.	112589761
Model No.	GTET	Model No.		Model No.	SDLT	Model No.	DSNT
Diameter	3.625 IN	No. of Cent.		Diameter	4.5 IN	Diameter	3.625 IN
Detector Model No.	GTET	Spacing		Log Type	GAM GAM	Log Type	NEU NEU
Type	SCINT			Source Type	Cs 137	Source Type	Am241Be
Length	8 IN			Serial No.	20786B	Serial No.	DSN-414

Distance to Source	N/A	FWDA [Y/N]		Strength	1.5 Ci	Strength	15 Ci

LOGGING DATA

GENERAL				GAMMA		ACOUSTIC			DENSITY			NEUTRON		
Run	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix
No.	From	To	ft/min	L	R	L	R		L	R		L	R	
ONE	TD	CSG	REC	0	150				60%	0%	2.65 g/cc	60%	0%	SAND

DIRECTIONAL INFORMATION

Maximum Deviation	25.90 deg	@	6578.00 ft	KOP	@ 4056.00 ft

DIRECTIONAL DATA PROVIDED TRI CITY SERVICES

Remarks: GTET-DSNT-SDLT-ACRt RAN IN COMBINATION

AHV CALCULATED FOR 5.5 IN GASING

MAXIMUM TEMPERATU8RES: 172 degF, 172 degF, 170 degF

CHLORIDES: 2900 mg/L

SERIAL NO. 242566

RIG: CROWN #2

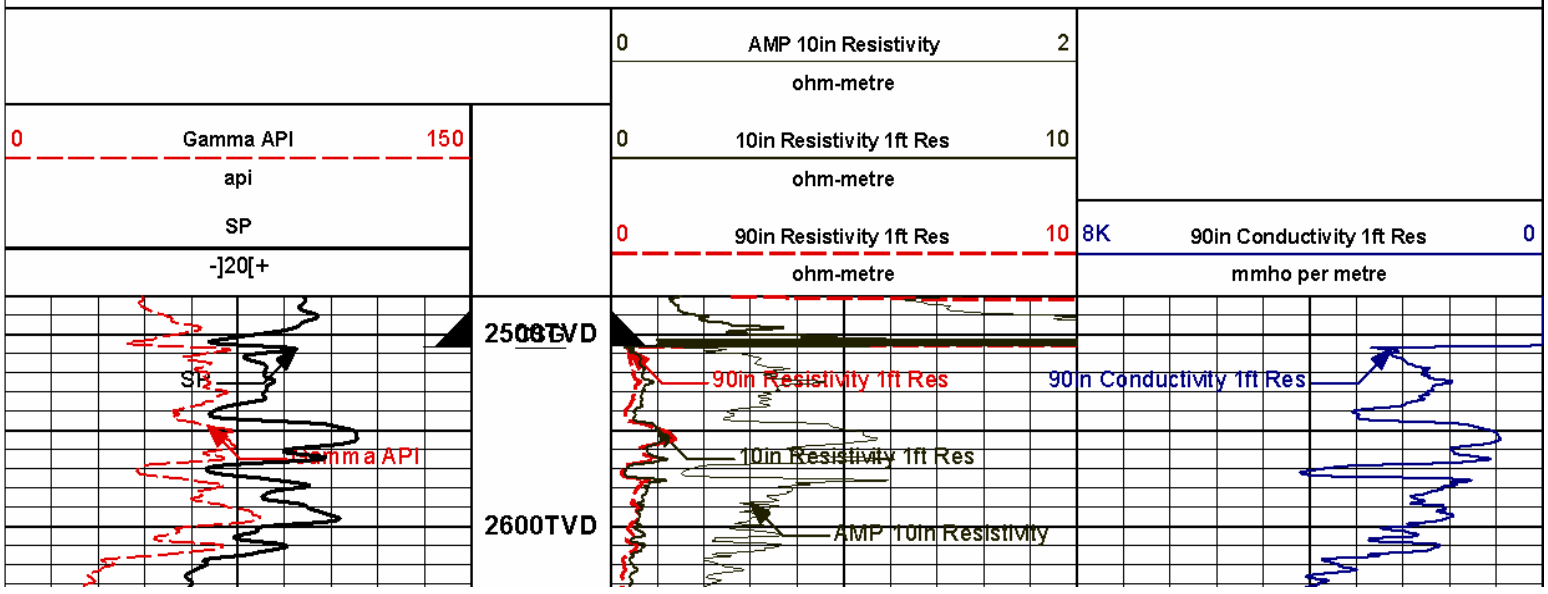
CREW: T. NORA, C. THOMAS, H. HARGROVE

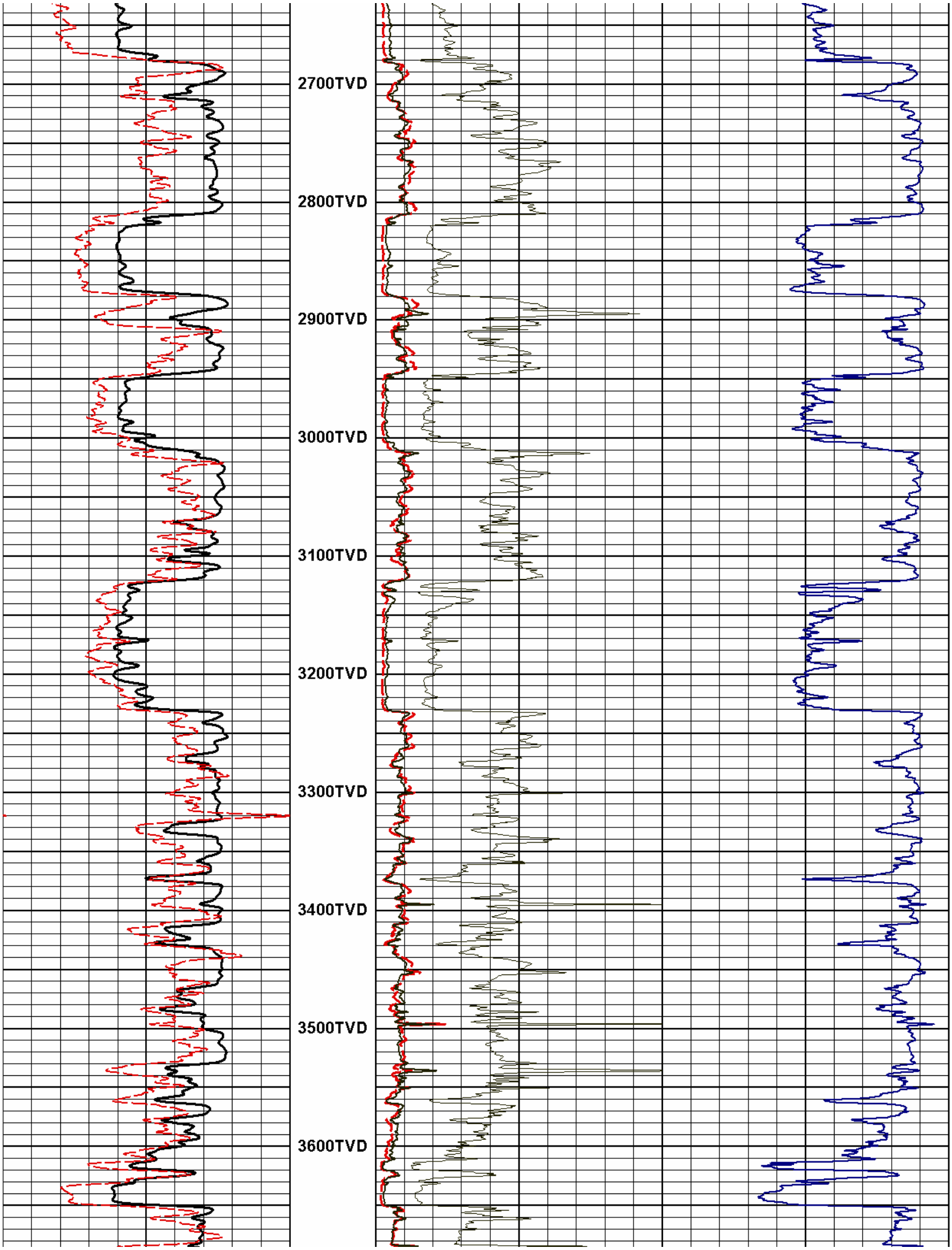
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES: NEW IBERIA, LA (337) 367-9261

HALLIBURTON

Plot Time: 06-Feb-11 15:27:34
Plot Range: 2480 ft to 7940 ft
Data: *\Well Based*\
Plot File: \\1IN_TVD\CHUCK_1IN_ACRT_IN_WBM_TVD

1 IN = 100 FT TRUE VERTICAL DEPTH

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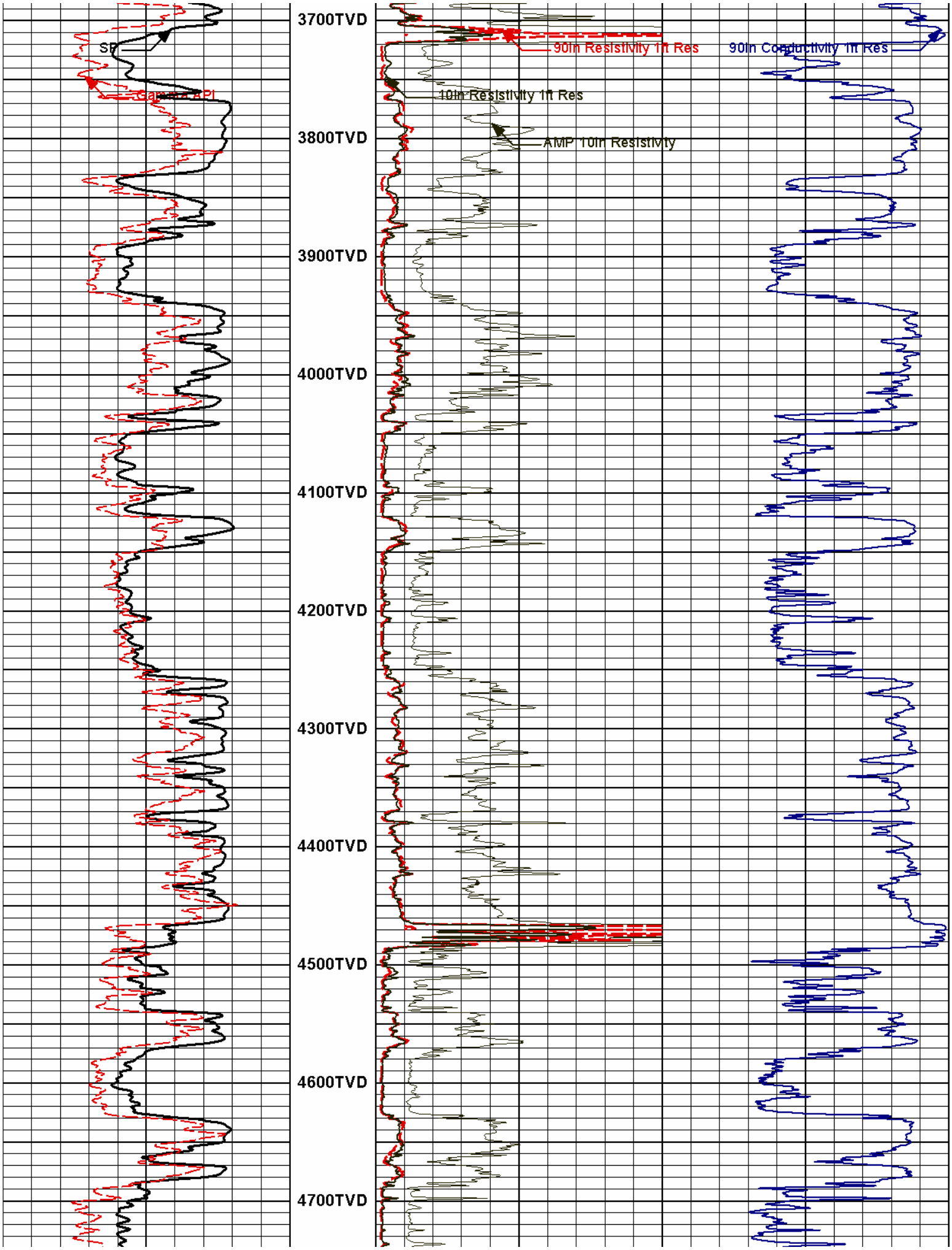
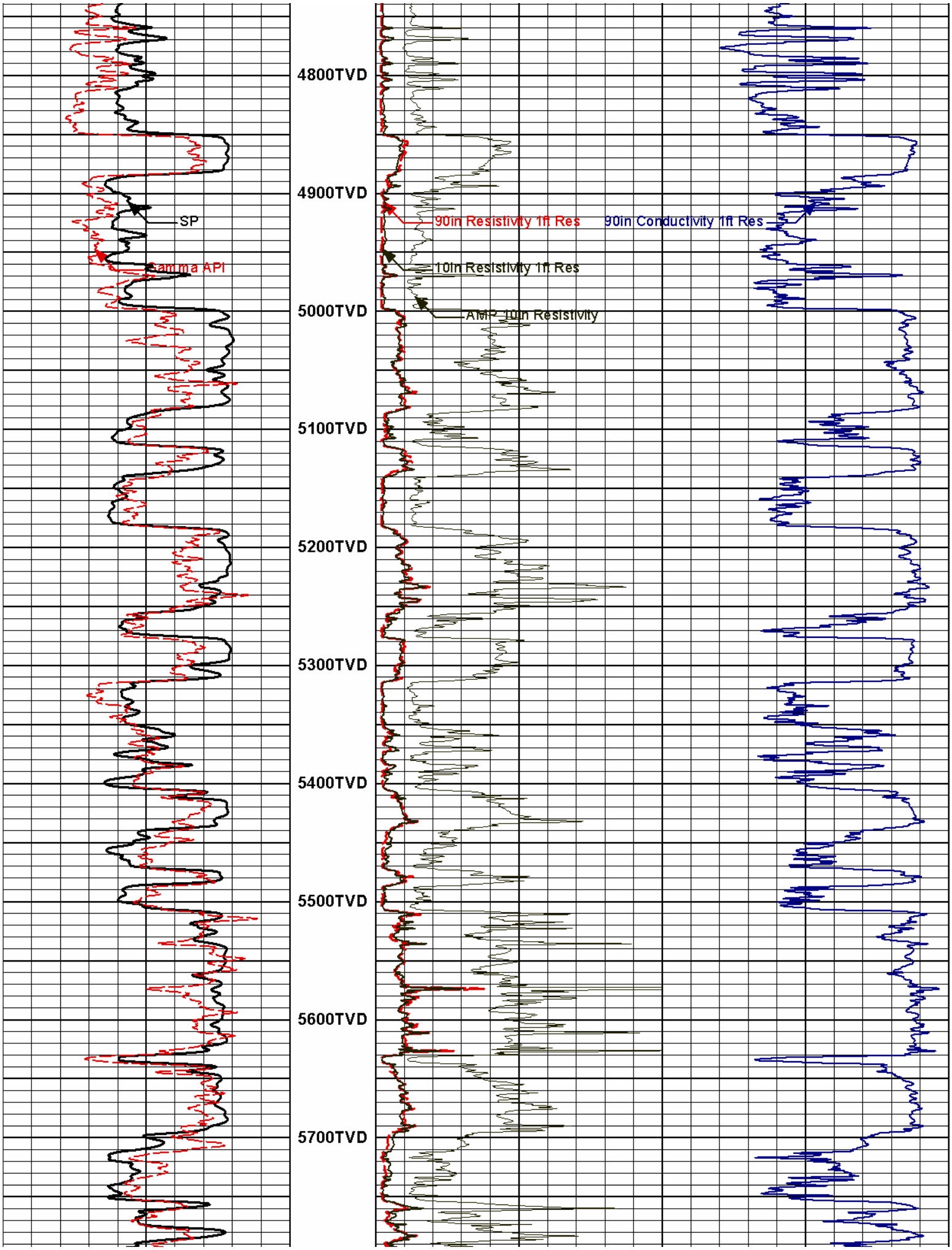
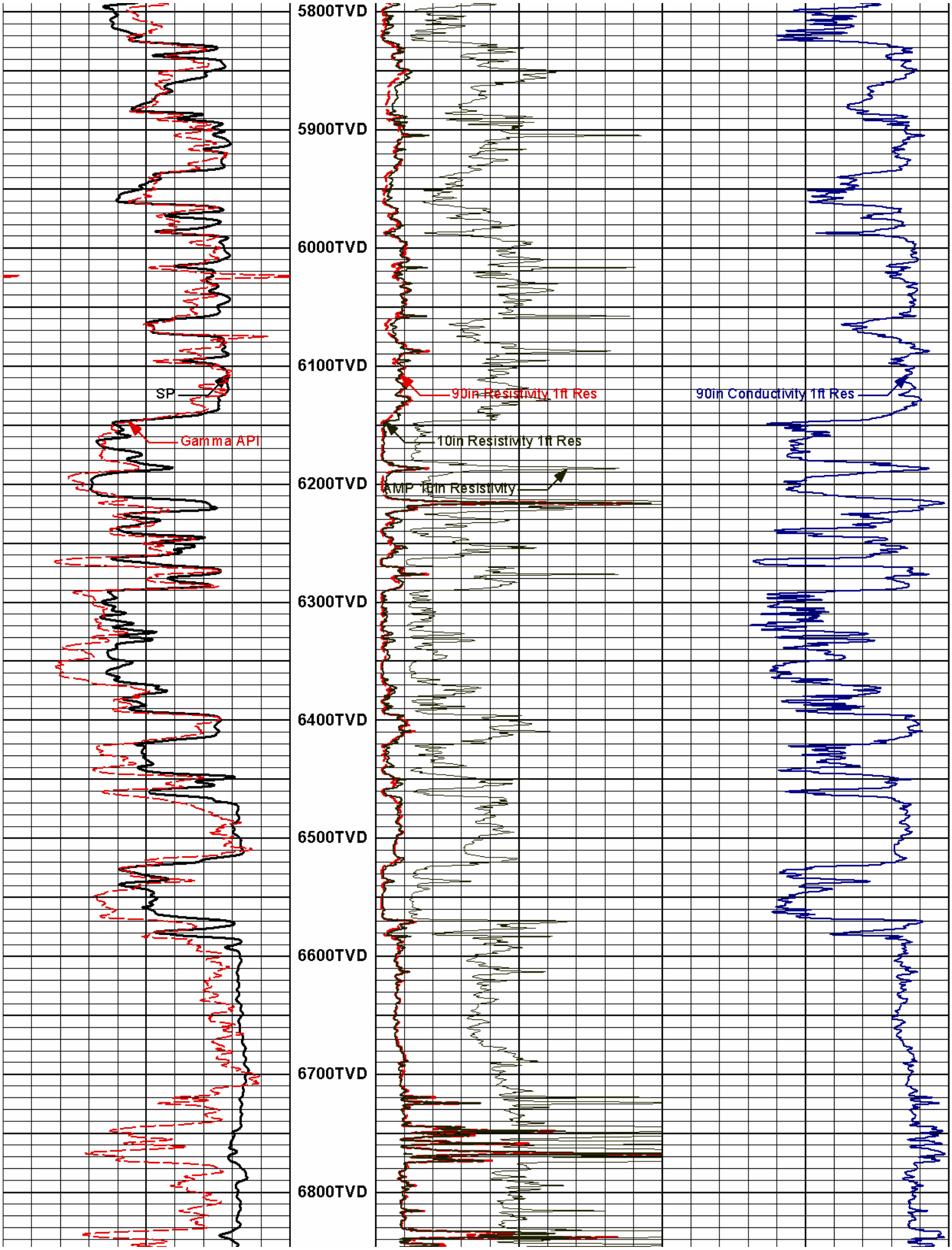
2800TVD
2900TVD
3000TVD
3100TVD
3200TVD
3300TVD
3400TVD
3500TVD
3600TVD


SP
Gamma API
3700TVD
3800TVD
3900TVD
4000TVD
4100TVD
4200TVD
4300TVD
4400TVD
4500TVD
4600TVD
4700TVD
90in Resistivity 1ft Res
10in Resistivity 1ft Res
AMP 10in Resistivity
90in Conductivity 1ft Res


4800TVD
4900TVD
5000TVD
5100TVD
5200TVD
5300TVD
5400TVD
5500TVD
5600TVD
5700TVD
SP
Gamma API
90in Resistivity 1ft Res
90in Conductivity 1ft Res
10in Resistivity 1ft Res
AIMP 10in Resistivity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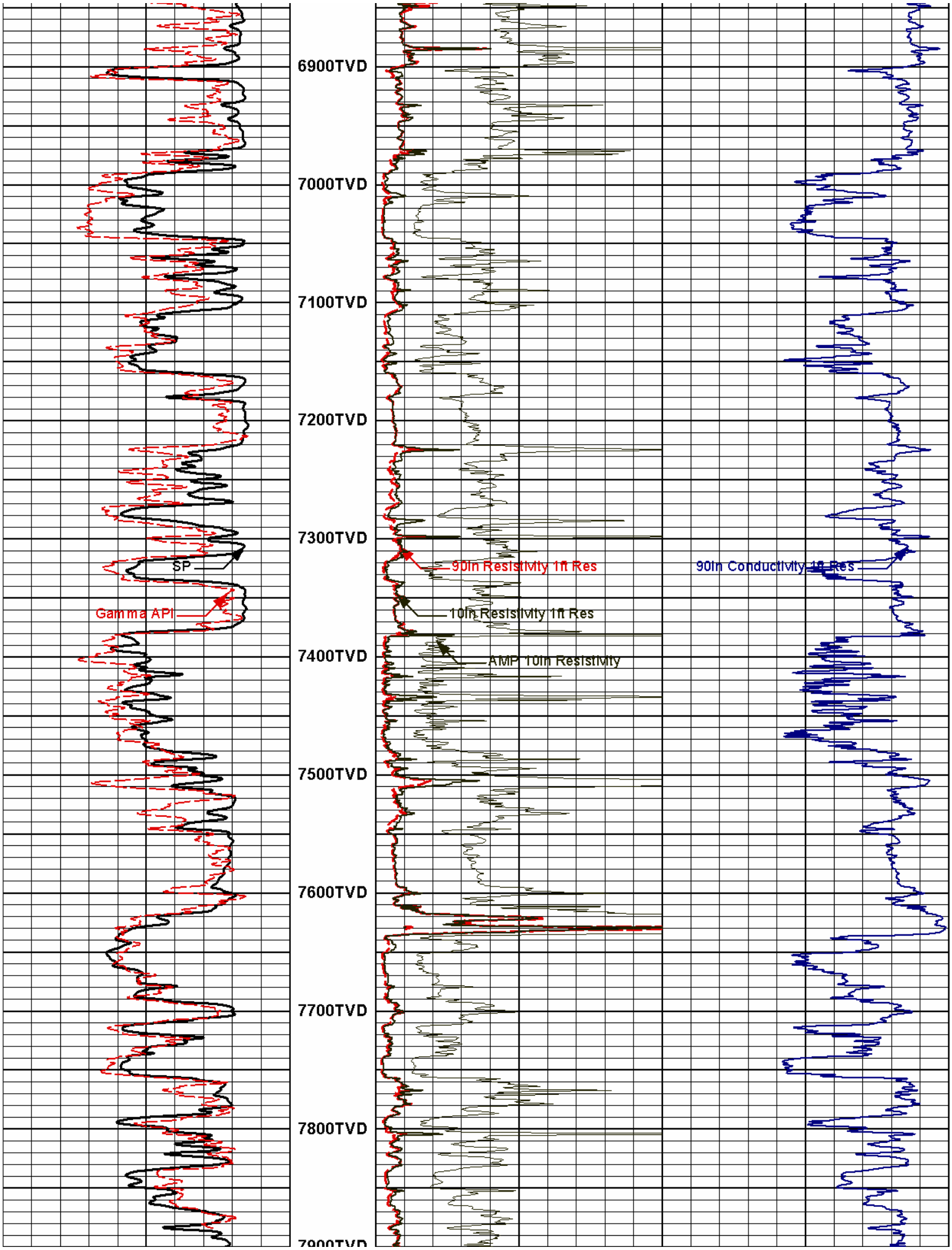
5900TVD
6000TVD
6100TVD
6200TVD
6300TVD
6400TVD
6500TVD
6600TVD
6700TVD
6800TVD
SP
Gamma API
90in Resistivity 1ft Res
10in Resistivity 1ft Res
AMP 10in Resistivity
90in Conductivity 1ft Res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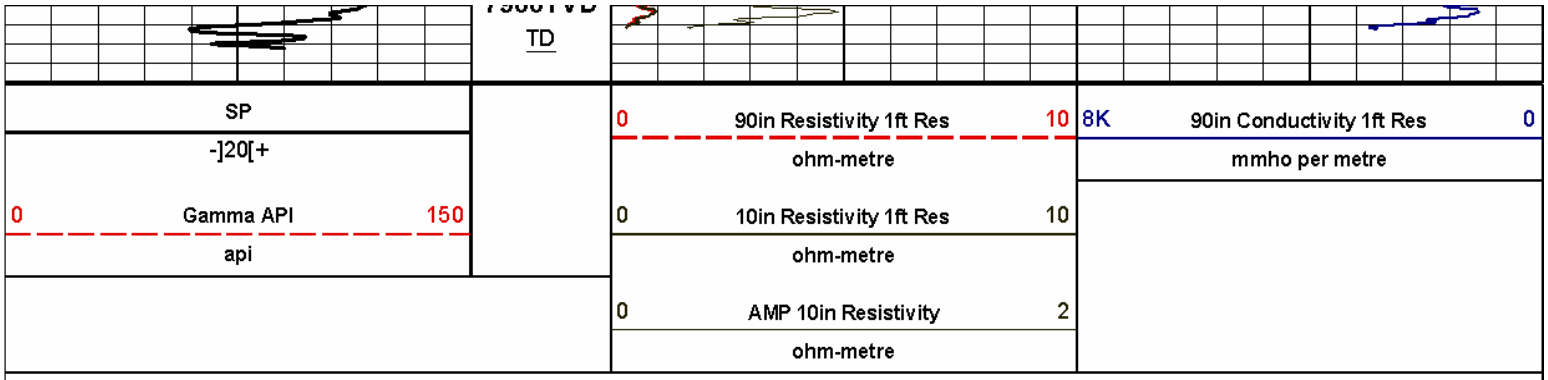
7000TVD
7100TVD
7200TVD
7300TVD
7400TVD
7500TVD
7600TVD
7700TVD
7800TVD
SP
Gamma API
90in Resistivity 1ft Res
10in Resistivity 1ft Res
AMP 10in Resistivity
90in Conductivity 1ft Res



HALLIBURTON

Plot Time: 06-Feb-11 15:27:45
Plot Range: 2480 ft to 7940 ft
Data: *\Well Based*\
Plot File: \\1IN_TVD\CHUCK_1IN_ACRT_IN_WBM_TVD

1 IN = 100 FT TRUE VERTICAL DEPTH

HALLIBURTON

TVD SURVEY REPORT

Hole Position Calculation Method:	Minimum Curvature	Tie in Data	Depth:	100.00	ft
Magnetic Declination:			TVD:	100.00	ft
			Inclination:	0.5	deg
			Azimuth:	174.94	deg
			N/S Departure:	0.00	ft
			E/W Departure:	0.00	ft

Measured Depth (ft)	Inclination (deg)	True Vertical Depth (ft)	Azimuth (deg)	N/S Departure (ft)	E/W Departure (ft)
100.00	0.5	100.00	174.94	0.00	0.00
200.00	0.8	199.99	159.88	-1.05	0.26
300.00	0.8	299.99	166.84	-2.30	0.64
400.00	0.8	399.98	175.81	-3.59	0.83
500.00	0.8	499.97	169.78	-4.89	1.00
600.00	0.8	599.96	155.75	-6.13	1.38
700.00	0.5	699.95	194.72	-7.15	1.54
800.00	0.3	799.95	145.69	-7.75	1.55
900.00	0.3	899.95	97.66	-7.96	1.89
1000.00	0.3	999.95	174.63	-8.21	2.13
1100.00	0.3	1099.95	231.60	-8.56	1.98
1200.00	0.3	1199.95	104.56	-8.75	2.02
1300.00	0.3	1299.95	191.53	-9.02	2.19
1400.00	0.3	1399.95	294.50	-9.14	1.94
1500.00	0.3	1499.95	169.47	-9.26	1.79
1600.00	0.3	1599.95	217.44	-9.65	1.69
1700.00	0.3	1699.95	24.41	-9.63	1.65
1800.00	0.3	1799.95	229.22	-9.57	1.58
1900.00	0.3	1899.95	259.19	-9.75	1.20
2000.00	0.5	1999.94	209.16	-10.18	0.77
2100.00	0.3	2099.94	237.13	-10.68	0.37
2200.00	0.5	2199.94	219.10	-11.13	-0.09

2300.00	0.5	2299.94	237.07	-11.71	-0.73
2400.00	0.5	2399.93	231.03	-12.22	-1.43
2700.00	0.3	2699.93	188.94	-13.69	-2.55
2800.00	0.3	2799.93	358.88	-13.69	-2.59
2900.00	0.3	2899.92	225.78	-13.62	-2.75
3000.00	0.3	2999.92	33.70	-13.59	-2.79
3100.00	0.3	3099.92	330.62	-13.22	-2.77
3200.00	0.3	3199.92	299.53	-12.92	-3.07
3300.00	0.5	3299.92	328.45	-12.44	-3.49
3400.00	0.5	3399.92	310.37	-11.79	-4.05
3500.00	0.3	3499.91	338.29	-11.30	-4.46
3600.00	0.3	3599.91	358.21	-10.88	-4.55
3700.00	0.3	3699.91	11.13	-10.45	-4.51
3800.00	0.3	3799.91	332.05	-10.04	-4.57
3900.00	0.3	3899.91	342.97	-9.64	-4.74
3959.00	0.3	3958.91	4.48	-9.39	-4.77
4065.00	0.5	4064.91	52.90	-8.88	-4.38
4158.00	2.1	4157.88	52.30	-7.59	-2.71
4251.00	4.4	4250.73	54.30	-4.47	1.54
4345.00	8.1	4344.15	60.30	0.92	10.22
4438.00	9.7	4436.03	62.70	7.76	22.88
4530.00	11.1	4526.52	60.30	15.70	37.46
4624.00	11.8	4618.65	62.40	24.64	53.83
4717.00	13.7	4709.35	60.30	34.50	71.83
4810.00	13.9	4799.66	62.40	45.13	91.30
4904.00	14.3	4890.83	59.40	56.27	111.29
4997.00	15.5	4980.70	59.20	68.48	131.85
5090.00	17.4	5069.89	59.70	81.86	154.54
5183.00	18.1	5158.47	57.80	96.58	178.77
5276.00	18.5	5246.76	57.10	112.29	203.38
5370.00	20.1	5335.48	59.40	128.61	229.81
5463.00	22.0	5422.27	60.40	145.35	258.71
5553.00	23.8	5505.17	59.90	162.79	289.08
5646.00	23.9	5590.23	60.80	181.39	321.76
5739.00	23.8	5675.29	61.00	199.68	354.62
5833.00	25.0	5760.89	60.40	218.68	388.48
5926.00	24.6	5845.32	59.50	238.22	422.24
6019.00	24.5	5929.91	59.40	257.86	455.52
6112.00	24.5	6014.54	60.30	277.23	488.87
6206.00	24.5	6100.07	61.70	296.12	522.96
6298.00	25.0	6183.62	63.20	313.93	557.11
6391.00	25.3	6267.81	60.30	332.64	591.91
6484.00	25.7	6351.75	60.30	352.48	626.69
6578.00	25.9	6436.38	59.40	373.03	662.07
6670.00	24.5	6519.62	60.80	392.56	696.01
6764.00	24.5	6605.16	60.10	411.79	729.92
6857.00	24.5	6689.79	60.80	430.81	763.47
6950.00	24.1	6774.55	59.40	449.88	796.65
7044.00	24.1	6860.36	62.50	468.51	830.19
7137.00	23.9	6945.32	60.40	486.58	863.42
7230.00	25.2	7029.91	60.60	505.61	897.05
7322.00	25.3	7113.12	60.60	524.87	931.24
7417.00	24.8	7199.18	58.70	545.19	965.95
7510.00	24.5	7283.71	61.00	564.67	999.48
7603.00	24.3	7368.40	60.60	583.42	1033.02
7695.00	25.2	7451.95	61.00	602.20	1066.64
7787.00	25.3	7535.16	63.00	620.62	1101.29
7787.00	25.3	7535.16	61.30	620.62	1101.29
7833.00	25.3	7576.76	60.77	629.88	1118.61
7864.00	25.3	7604.79	61.30	636.29	1130.19
7895.00	25.3	7632.83	59.77	642.80	1141.71
7958.00	25.3	7689.81	60.77	656.12	1165.05

8020.00	25.0	7745.94	59.77	669.18	1187.91
8082.00	25.0	7802.13	60.77	682.17	1210.66
8144.00	24.8	7858.38	61.77	694.71	1233.53
8202.00	24.8	7911.05	61.77	706.19	1254.92

Horizontal displacement is relative to the well head.
Horizontal displacement (closure) at 8,202.00 ft is 1,439.98 ft along 60.63 deg (Grid).

Data: SL_18593_2 Date: 06-Feb-11 15:25:11

COMPANY	**SMITH PRODUCTION CO.**		
WELL	**SL 18593 #2**		
FIELD	**GILLIS-ENGLISH BAYOU**		
PARISH	**CALCASIEU**	STATE	**LOUISIANA**

HALLIBURTON

ARRAY COMPENSATED RESISITIVTY

1 IN = 100 FT TVD